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The Files

30 July 1957

[redacted]

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Trip Report - [redacted]

25X1A5A1

REF : R&D Laboratory Report - "Miniature Variable Frequency Oscillator"  
dated 22 March 1957 (Project 2510)

1. On 26 July 1957 I visited the [redacted]

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[redacted] The purpose of this visit was to return 12 defective ZJ-14 unijunction transistors and discuss the application of these transistors in an audio oscillator with the required stability. (See referenced report for a discussion of the requirements).

2. Mr. [redacted] engineers working on the application and production of unijunction transistors, could not give a satisfactory explanation for the cause of these units being defective. The most popular idea was that someone must have switched the units with another order between the time that [redacted] selected and packed them and I received them here at the Laboratory. It was my opinion that the resistivity of the silicon changed during the interval of time because of contamination. They agreed that the units were defective and that they would be replaced.

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3. A discussion of the application of the ZJ-14 in a precision audio oscillator circuit brought out some interesting variations in the original circuit. These variations were suggested as a means of eliminating the requirement for specially selected units in order to obtain the required stability. These circuit variations will be investigated at the R&D Laboratory.

[redacted]

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Lab/JCT/rkb (30 July 1957)

Distribution:

Original - Addressee

- 1 - R&D Lab
- 1 - Monthly Report ✓
- 1 - R&D Chrono
- 1 - Dev/s

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